







### GLOBAL PERSONNEL RECOVERY SYSTEM





# JEFX 2000











## Global Personnel Recovery System

#### TWO YEAR OLD INITIATIVE

Deploy a Global Data Communication and Loc/ID
 System Available to any User, Anywhere, 24/7

#### - PROVIDES:

- ✓ Precise location/ID, tagging and tracking of personnel, vehicles, aircraft and vessels
- ✓ Two-way OTH Near Real Time (NRT) data Comms
- ✓ Secure, Encrypted, LPI/LPD/LPE Signal



## GPRS System Description

#### U.S. AIR FORCE

#### CONCEPT

- -- Develop State-of-the-art Combined Military and Civilian Search and Rescue (SAR) Package Hosted on GPS Satellites
- -- Government Segment Use S-Band (Commercial) Two-way Data Capability to Provide Secure, Near Real Time Communications
- -- Public Segment Use 406 MHz Repeaters to Relay Distress Messages, Including Return Link for Message Verification (Two Way Capability)
- Government Segment Will be Available to DOD, Any Government Agency, and Coalition Allies
- Public Segment Will be Freely Available Internationally

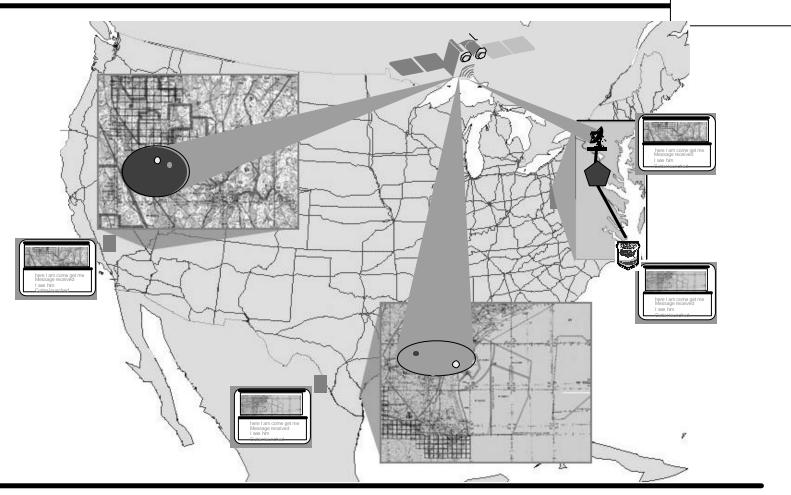


### **GPRS Can Support**

- ✓ COMBAT SEARCH AND RESCUE (CSAR)
- ✓ CIVIL SEARCH AND RESCUE
- ✓ IN TRANSIT VISIBILITY (ITV)
- ✓ COMBAT IDENTIFICATION (CID)
- ✓ SAR TASK FORCE (SARTF) FLIGHT FOLLOWING
- ✓ WIDE VARIETY OF TAGGING/TRACKING REQUIREMENTS
- ✓ GROWING DATA EXFIL REQUIREMENTS
- ✓ LOGISTICS ARMY Movement Tracking System (MTS)



U.S. AIR FORCE



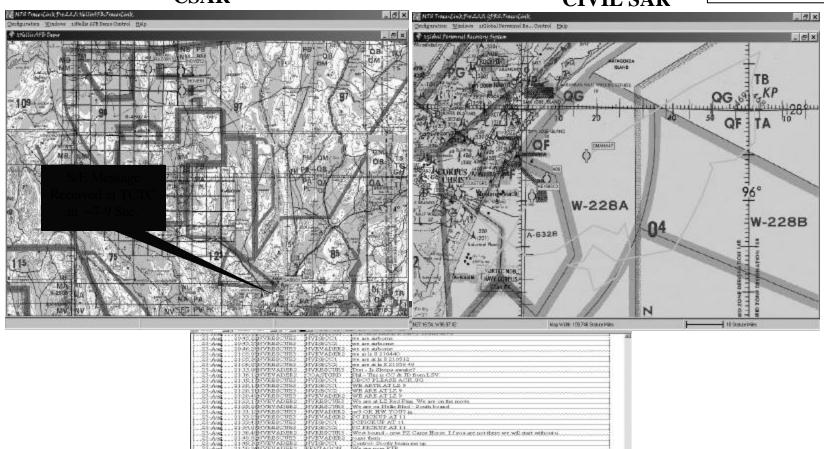
Integrity - Service - Excellence



### GPRS JEFX 2000

U.S. AIR FORCE

CSAR CIVIL SAR

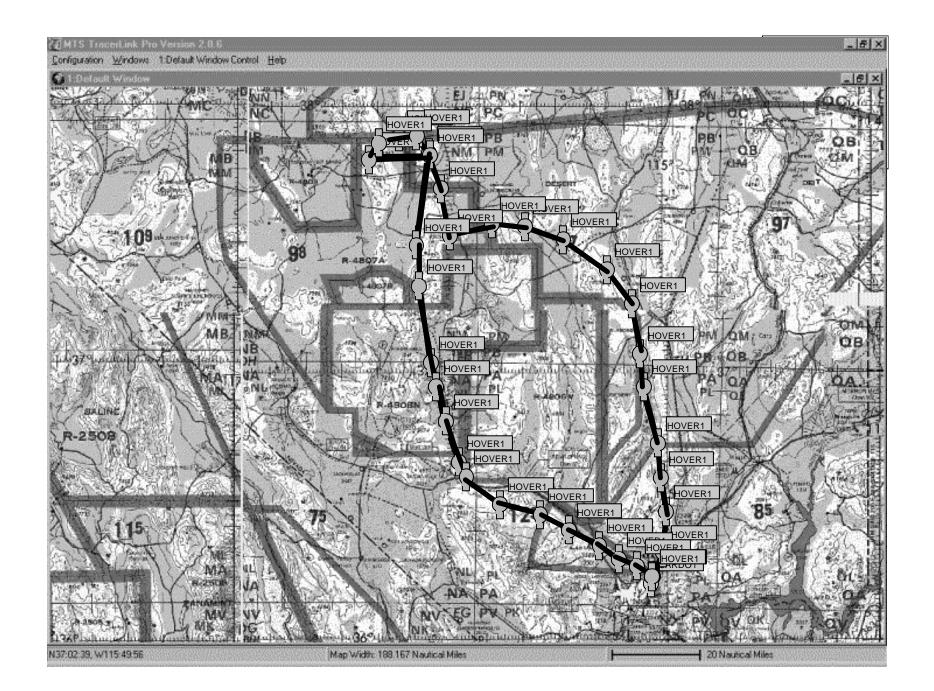




## GPRS INSTALLATION



Integrity - Service - Excellence



- RESERVE SPACE ON GPS BLOCK IIF/III
  FOR GPRS PACKAGES
- CREATE FORMAL GPRS PROGRAM
  - UTILIZE ACTD AS FIRST STEP
  - TRANSITION TO JOINT PROGRAM

Integrity - Service - Excellence



### Military/Government Segment

- Burst transmission 2-6W, 40-550 milliseconds
- Coverage Global
- Capacity greater than 300,000 transmissions/hour
- Near real time messaging delivery <30 sec</li>
- Spread spectrum (S band) up to 16 MHz
- Over-the-air programmable LPI/LPD/LPE performance
- NSA approved crypto with over-the-air re-key
- Users operate virtual private networks

#### **Public Segment**

- Burst transmission ID and embedded GPS
- Coverage Global
- Receive and process 406 alert messages
- Two way messaging for 406 customers